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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/782,373	02/18/2004	Jesse L. Beauchamp	1950-0024	3556	
23980 7	7590 08/29/2005		EXAM	EXAMINER	
REED INTELLECTUAL PROPERTY LAW GROUP 1400 PAGE MILL ROAD			COVINGTON, RAYMOND K		
1.00 111021.1	CA 94304-1124		ART UNIT	PAPER NUMBER	
,			1625		
			DATE MAILED: 08/29/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No	. Applicant(s)				
	10/782,373	BEAUCHAMP	ET AL.			
Office Action Summary	Examiner	Art Unit	1			
	Raymond Covir	gton 1625				
The MAILING DATE of this communic		-	address			
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNIC - Extensions of time may be available under the provisions of after SIX (6) MONTHS from the mailing date of this communication of the period for reply specified above is less than thirty (30). - If NO period for reply is specified above, the maximum statused in the period for reply is specified above, the maximum statused in the period for reply within the set or extended period for reply w	ATION. 37 CFR 1.136(a). In no event, how ication. days, a reply within the statutory metory period will apply and will expirell, by statute, cause the application	vever, may a reply be timely filed inimum of thirty (30) days will be considered tile SIX (6) MONTHS from the mailing date of thi to become ABANDONED (35 U.S.C. § 133).	mely. is communication.			
Status						
1) Responsive to communication(s) filed	on <u>20 August 2004</u> .	•				
2a) This action is FINAL . 2b	2a) ☐ This action is FINAL . 2b) ☑ This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-33</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-33</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction	on and/or election require	ement.				
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) ☐ Acknowledgment is made of a claim fo a) ☐ All b) ☐ Some * c) ☐ None of:	r foreign priority under 3	5 U.S.C. § 119(a)-(d) or (f).	·			
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
	•					
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) [Interview Summary (PTO-413)	•			
2) Notice of Draftsperson's Patent Drawing Review (PTC		Paper No(s)/Mail Date				
3) Information Disclosure Statement(s) (PTO-1449 or PT Paper No(s)/Mail Date 8/20/04.	O/SB/08) 5)	Notice of Informal Patent Application (F Other:	PTO-152)			
U.S. Patent and Trademark Office						
PTOL-326 (Rev. 1-04)	Office Action Summary	Part of Paper	r No./Mail Date 2			

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The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-33 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

It is not clear what applicants' regard as their invention. The claims as presently recited, particularly claims 1 and 19 appear to recite in the case of claim 1 a method and in the case of claim 19 a compound, involving reacting an amine containing compound with crown ether and with an acid, metal or diazo. Or the claim recites, an amine containing group with a crown ether which crown ether also contains an acid, metal or diazo. Clarification and/or amendment is needed.

Claim Rejections - 35 USC. 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Galan et al J. Am. Chem. Soc. Vol. 114 pp 1511-1512 (1992) in view of Dugas et

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al Chem. Abs. Vol. 115 no. 471563 and Fredrick et al Chem. Abs. Vol. 94 no. 134248 and Ajinomto et al JP 59062583 Chem. abstract.

Determination of the scope and content of the prior art (MPEP 2141.01)

Galan et al teach forming compounds from the combination of an aminecontaining group, a crown ether and an acid moiety. See, for example, page 1511

scheme I. Dugas et al is an analogous teaching wherein a crown ether with an acid
moiety substituent is combined with an amine-containing group. See formula I and
the abstract. Likewise, Fredrick et al also teach an analogous method. See the
abstract.

Ascertainment of the difference between the prior art and the claims (MPEP 2141.02)

The references do not teach metal binding groups or diazo groups. However, it is well known in the crown ether art to form crown ether containing compounds using metals. This is particularly true in view of Ajinomto et al JP 59062583

Chem. Abstract which teach an analogus method. To form complexes employing these crown ethers would have been an obvious expedient to one of ordinary skill in the art.

Finding of prima facie obviousness--rational and motivation (MPEP 2142-2413)

To use somewhat different but otherwise analogous components in a known process would have been obvious as the results would not have been unexpected.

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No claim is allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Raymond Covington whose telephone number is (571) 272-0681. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, C. Tsang can be reached on (571) 272-0562. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Mer 8/24/05

Raymond Covington Examiner

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